WHAT IS CLAIMED IS:

1. A throttle control device comprising:

a throttle body in which an intake passage is defined;

a throttle valve rotatably disposed within the intake passage;

a motor for rotating the throttle valve;

a gear accommodating chamber defined in the throttle body;

a gear mechanism disposed within the gear accommodating chamber, the gear mechanism arranged and constructed so as to transmit rotation of the motor to the throttle valve, the gear mechanism including at least one gear; and

a shaft rotatably supporting the gear;

wherein the gear accommodating chamber has a first wall surface and a second wall surface opposed to each other in an axial direction of the shaft, and wherein the shaft has a first shaft portion formed on the first wall surface in a cantilever fashion and a second shaft portion formed on the second wall surface in a cantilever fashion.

2. A throttle control device according to claim 1, wherein a gap is provided between assembled ends of the first shaft portion and the second shaft portion.

3. A throttle control device according to claim 2, wherein a reinforcing portion is formed with the first shaft portion on the first wall surface and/or with the second shaft portion on the second wall surface.

4. A throttle control device according claim 3, wherein the gear comprises a counter gear.

5. A throttle control device according claim 4, further comprising a collar provided between the shaft and the gear, the collar being formed of a material superior in wear resistance to that of the shaft and/or the gear.

6. A throttle control device according to claim 5, wherein the collar is fixed in position relative to one of the shaft or the gear, whichever one is formed of a material of lower wear resistance, and the collar is in sliding contact with the other of the shaft or the gear.

7. A throttle control device according to claim 1, wherein a reinforcing portion is formed with the first shaft portion on the first wall surface and/or with the second shaft portion on the second wall surface.

8. A throttle control device according to claim 7, wherein the gear comprises a counter gear.

9. A throttle control device according to claim 8, further comprising a collar provided between the shaft and the gear, the collar being formed of a material superior in wear resistance to that of the shaft and/or the gear.

10. A throttle control device according to claim 9, wherein the collar is fixed in position relative to one of the shaft or the gear, whichever one is formed of a material of lower wear resistance, and the collar is in sliding contact with the other of the shaft or the gear.

11. A throttle control device comprising:

a throttle body in which an intake passage is defined;

a throttle valve rotatably disposed within the intake passage;

a motor for rotating the throttle valve;

a gear accommodating chamber defined in the throttle body;

a gear mechanism disposed within the gear accommodating chamber, the gear mechanism arranged and constructed so as to transmit a rotation of the motor to the throttle valve, and the gear mechanism having at least one gear; and

a shaft rotatably supporting the gear,

wherein the gear accommodating chamber has a wall surface, and wherein the shaft is a single member formed in a cantilever fashion on the wall surface.

12. A throttle control device according to claim 11, wherein the wall surface includes a first wall surface and a second wall surface opposed to each other in an axial direction of the shaft, and wherein the shaft is formed integrally with one of the first or second wall surfaces, with a gap being provided between an end of the shaft and the other of the first or second wall surfaces.

13. A throttle control device according to claim 12, wherein the shaft is equipped with a reinforcing portion disposed at one end of the shaft nearest to the one wall surface.

14. A throttle control device according to claim 13, wherein the reinforcing portion is a tapered portion whose diameter gradually increases toward the one wall surface.

15. A throttle control device according to claim 14, wherein the gear comprises a counter gear.

16. A throttle control device according to claim 15, further comprising a collar provided between the shaft and the gear, the collar being formed of a material superior in wear resistance to that of the shaft and/or the gear.

17. A throttle control device according to claim 16, wherein the collar is fixed in position relative to one of the shaft or the gear, whichever one is formed of a material of lower wear resistance, and the collar is in sliding contact with the other of the shaft or the gear.

18. A throttle control device according to claim 1, wherein the gear comprises a counter gear.

19. A throttle control device according to claim 11, wherein the gear comprises a counter gear.

20. A throttle control device according to claim 1, further comprising a collar provided between the shaft and the gear, the collar being formed of a material superior in wear resistance to that of the shaft and/or the gear.

21. A throttle control device according to claim 20, wherein the collar is fixed in position relative to one of the shaft or the gear, whichever one is formed of a material of lower wear resistance, and the collar is in sliding contact with the other of the shaft or the gear.

22. A throttle control device according to claim 11, further comprising a collar provided between the shaft and the gear, the collar being formed of a material superior in wear resistance to that of the shaft and/or the gear.

23. A throttle control device according to claim 22, wherein the collar is fixed in position relative to one of the shaft or the gear, whichever one is formed of a material of lower wear resistance, and the collar is in sliding contact with the other of the shaft or the gear.

24. A throttle control device according to claim 1, wherein the throttle body has a main body and a cover which is coupled to the main body and which is a separate component apart from the main body, wherein the gear accommodating chamber is formed between the main body and the cover, and wherein the first wall surface is formed by the throttle body main body and the second wall surface is formed by the cover.

25. A throttle control device according to claim 12, wherein the throttle body has a main body and a cover which is coupled to the main body and which is a separate component apart from the main body, wherein the gear accommodating chamber is formed between the main body and the cover, and wherein the first wall surface is formed by the throttle body main body and the second wall surface is formed by the cover.